



FEDERAL COMMUNICATIONS COMMISSION

LOW POWER TELEVISION / TELEVISION TRANSLATOR
BROADCAST STATION LICENSE

Authorizing Official:

Keith A. Larson
Chief, LPTV Branch
Video Services Division
Mass Media Bureau

Grant Date: 10-31-88

This license expires 3:00 am.
local time: June 01, 1993

93-75

Official Mailing Address:

RAYSTAY COMPANY
P.O. BOX 38
CARLISLE, PA 17013

Call sign: W4OAF

License File No.: BLTTL-880829IC

This license covers Permit No.: 880121IA

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Name of Licensee:

RAYSTAY COMPANY

Station Location:

PA-DILLSBURG

M.H.
9-23-88

Federal Communications Commission

Docket No. 93-75 Exhibit No. 270

Presented by TBF

Disposition	{	Identified	<u>1-27-94</u>
		Received	<u> </u>
		Rejected	<u>1-27-94</u>

Reporter A.W. [Signature]

Date 1-27-94

Call sign: W4OAF

License No.: BLTTL-880829IC

Frequency (MHz): 626.0 - 632.0 Offset: Plus

Channel: 40

Hours of Operation: Unlimited

Transmitter location (address or description):

On Long Mountain, 3.2
kilometers Northwest of
Dillsburg, Pennsylvania

Transmitter: Type accepted. See Section 74.750 of the Commission's Rules.

Antenna type: (directional or non-directional): Directional

Desc: Bogner, B16UA

Antenna Supporting Structure: Mounted atop existing tower

Major lobe directions (degrees true): 0.0 75.0 150.0

Antenna coordinates: North Latitude: 40 07 20.0

West Longitude: 77 04 10.0

Transmitter output power (Visual) : 1 kW

Maximum effective radiated power (Visual) : 6.55 kW

Height of radiation center above ground : 32.0 Meters

Height of radiation center above mean sea level : 433.0 Meters

Overall height of antenna structure above ground (including obstruction
lighting, if any) : 33.0 meters

Obstruction marking and lighting specifications for antenna
structure:

It is to be expressly understood that the issuance of these specifications
is in no way to be considered as precluding additional or modified marking
or lighting as may hereafter be required under the provisions of Section
303(q) of the Communications Act of 1934, as amended.

None Required

ENGINEERING DATA

1. Facilities requested:

a. Output Channel No. 40 626-632 MHz	Transmitter Output Power (watts) 1000	Proposed Principal Community or Communities to be served City: Dillsburg, State: Pennsylvania	Primary Station (station to be rebroadcast) (Translator only) Call: Channel No. City: Not applicable State: Frequency: -- MHz
b. Offset (Low Power TV and TV Translator Stations only) No offset <input checked="" type="checkbox"/> Plus offset Zero offset <input type="checkbox"/> Minus offset			
c. Input Channel No. Not app	If station is to operate via another translator station, indicate call sign and location of final intermediate translator: Not applicable		

2. Proposed transmitter location:

City --	County Cumberland	State Pennsylvania
Address or other description of location 2 mi NW of Dillsburg on Long Mountain		Geographical coordinates of transmitting antenna to nearest second North Latitude " West Longitude " 40 07 20 77 04 10

Attach as Exhibit No. EE-1 a map or maps (preferably topographic, if obtainable, such as U. S. Geological Survey quadrangles) for the area of the proposed transmitter location and show drawn thereon the following data:

- Scale of miles.
- Proposed transmitter location accurately plotted.
- Principal community to be served by the proposed TV or FM translator station, clearly identified and labeled.
- Locations of all known radio stations (except amateur), such as AM, FM, TV, Translator, Police, Fire, Aeronautical, Public Utility, etc., and known commercial or government receiving sites, within the immediate vicinity of the proposed transmitter location.

3. Transmitter:

Make Acrodyne	Type No. T-2400 M/U	Rated output power (watts) P 1000 watts
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4. Transmission line:

Make Andrew	Type No. LDF7-50	Length 130 ft	Rated efficiency E for length given (decimal fraction) 0.8194
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5. Transmitting antenna

Manufacturer Bogner		Model No. ^{1/} B4UA	Description ^{1/} Slot array	Power gain G (multiplier) in lobe of maximum radiation relative to a half-wave dipole 8.0	Height of radiation center above mean sea level 1421 (ft)
Orientation ^{2/} 0, 75 & 150 degree true	Height above ground ^{3/} 108 ft agl 1425 ft amsl	Elevation of Site ^{4/} 1317 ft amsl	Elevation of Community ^{5/} 600 ft amsl	Effective radiated power R ($R = F \times E \times G$) (kW) 6.555 kW	

- Give basic type using general descriptive terms such as half-wave dipole, "bow-tie" with screen, corner reflector, 10 element Yagi, 4 element in-phase array, two stacked 5 element Yagis, etc.
- Show the direction of the main radiation lobe in degrees with respect to true north in a 360 degree horizontal azimuth, numbered clockwise, with true north as zero azimuth.
- Show height to topmost portion of structure, including highest top mounted antenna and beacon if any.
- Show the ground elevation above mean sea level at the base of the transmitting antenna supporting structure.
- Show the average elevation of the community above mean sea level, or in lieu thereof, the commonly used elevation figure for the community to be served.

